

ABSTRACT

A gearbox, particularly for transmission systems in devices for metering granular and/or materials in powder form, includes a pair of shafts, that is, a drive-input shaft and a drive-output shaft, respectively. On the output shaft is at least one pair of coaxial freewheels, on each of which an end of a respective linkage carrying a movable fulcrum device is active. The opposite end of each linkage is driven with a reciprocating oscillatory motion about the fulcrum device by way of an eccentric device provided on the drive-input shaft in order to convert the reciprocating oscillatory motion into an intermittent rotary motion of each freewheel and consequently to bring about a rotary motion of the drive-output shaft in a preselected direction of rotation. The drive-input shaft includes at least one pair of cranks with eccentric pins and each linkage includes a respective element substantially similar to a connecting-rod having a first end connected kinematically to the corresponding freewheel and a second, opposite end articulated on the respective pin of the crankshaft with a capability for rotary/translation movement relative to the pin.